



## OPERATING INSTRUCTIONS & PARTS MANUAL

# WET & DRY TRADESMAN VACUUMS

MODEL 2Z972F AND 2Z982F

FORM 5S1835  
07985  
0191/016/VP

**READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE PRODUCT DESCRIBED. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION, FAILURE TO COMPLY WITH THE INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!**

**RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.**

## HOUSEHOLD/WORKSHOP USE

### Description

Dayton Tradesman vacuums are designed for both WET and DRY pickup. These models feature a durable steel tank, safety edge lid, a 2.0 (Peak) HP single-stage bypass motor, an 8 ft cord and will convert to a blower. Accessories include a 6 ft x 1 1/4" hose, 2 extension wands, 10" combination wet/dry nozzle with squeegee insert and a caster system for mobility.

### Specifications

Capacity	{ 2Z972F . . . . . 6 Gallons 2Z982F . . . . . 10 Gallons
Electrical rating	. 120 Volts, 50/60 Hz AC, 8.5 Amps
CFM 2 1/2" orifice	. . . . . 155
Static pressure	. . . . . 52" water
Overall dimensions	
2Z972F	. . . . . 13" Dia. x 21 1/2" high
2Z982F	. . . . . 15" Dia. x 23 1/2" high
Weight (approximate)	
2Z972F	. . . . . 15 Lbs.
2Z982F	. . . . . 20 Lbs.
Approval	. . . . . UL Listed
Intake diameter	. . . . . 2 1/2"

## ⚠ DANGER

**Never operate this unit when flammable materials or vapors are present because electrical devices produce arcs or sparks that can cause a fire or explosion.**

## IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following: Read all instructions completely before attempting to operate your wet/dry utility vacuum cleaner.

## ⚠ DANGER

**TO REDUCE THE RISK OF ELECTRIC SHOCK:**

1. Check the wall outlet to ensure for proper grounding of the electrical cable. Have a licensed electrician check the outlet, if you are not sure.
2. Disconnect vacuum from electrical outlet before changing filters, cleaning the unit, emptying the tank, and completing work.

## ⚠ WARNING ⚠

**TO REDUCE THE RISK OF BURNS, FIRE, ELECTRIC SHOCK OR PERSONAL INJURY:**

1. Don't allow the cleaner to be used as a toy, or to run unattended at anytime. Keep children away from cleaner.
2. Don't use accessories except as recommended and provided by Dayton Electric Mfg. Co. Use this cleaner for its intended use only, as described in this manual. Use of accessories not recommended by the manufacturer may cause fire, electric shock, or injury.
3. Never use the cleaner if the cord, plug, motor, filter, or the cleaner itself, is in poor condition. Do not operate vacuum if it has been dropped, damaged, exposed to weather, or dropped into water. Have a qualified serviceman inspect and replace parts whenever necessary.
4. Never operate cleaner without filters in place.
5. To avoid the igniting of vapors or dust due to the arcing of the motor brushes, do not pick up flammable or readily combustible material, hot ash, coals, or use in the presence of explosive liquids or vapor.
6. Do not use your cleaner as a sprayer of flammable liquids, such as oil-base paints, lacquers, household cleaners, etc.
7. Do not vacuum toxic, carcinogenic, combustible, or other hazardous materials, such as asbestos, arsenic, barium, beryllium, lead, pesticides, or other health endangering materials. Specially designed units are available for these purposes.
8. Do not pick up burning cigarettes or other smoking materials: ashes, matches or similar materials.
9. Do not pick up wood or coal ash, soot or cement dust, as these are very fine particles that may pass through the filters and affect the performance of the motor, or be exhausted back into the air. Optional, more efficient filtration may be required.

10. Don't leave the cord lying on the floor once the cleaning job is finished; it can become a tripping hazard.
11. Don't abuse cord. Never carry cleaner by cord, or pull cord to disconnect from outlet. Grasp the plug, not the cord.
12. Keep cord from heat, oil and sharp edges. Don't close doors on the cord or snag cord under furniture. Never pull cord around corners with sharp edges.
13. Use special care when emptying heavily loaded tanks.
14. The operation of a utility vac can result in foreign objects being blown into eyes, which can result in eye damage. Always wear safety goggles when operating vacuum.
15. To avoid spontaneous combustion, empty tank after each use.
16. Never operate the cleaner with any air openings blocked. Keep the air openings free of dust, lint, hair, and the like.
17. Never drop or insert any objects into any openings.
18. Keep hair, face, fingers, and loose clothing away from any openings.
19. Before removing plug from outlet, switch should be in the OFF position.
20. Use extra caution when cleaning on stairs.
21. Never handle plug, cord, or cleaner with wet hands.
22. **STAY ALERT.** Watch what you are doing, and use common sense. Do not use a vacuum cleaner when you are tired, distracted or under the influence of drugs, alcohol or medication causing diminished control.

## SAVE THESE INSTRUCTIONS

### ▲ WARNING ▲

**TO AVOID ELECTRIC SHOCK, DO NOT EXPOSE TO RAIN, STORE INDOORS.**

#### Unpacking

1. Remove vacuum cleaner, including all parts and accessories (shipped loose) from the carton.
2. Remove motor housing assembly from vacuum tank, and check inside for accessories. (Release lid latches by pushing outward with thumb.)
3. Assemble caster system according to instructions in this manual.
4. Replace tank cover and make sure latches are clamped securely.

#### Assembly

(Refer to Figure 1)

1. Prior to installation, set in room temperature for approximately 15 minutes.
2. You will find four swivel stem casters in a plastic bag. Install them into the caster socket by inserting the caster stem into the hole and applying pressure until you feel the caster snap in.
3. Remove tank cover and invert tank so that the bottom is facing up.
4. When plastic snap-on dolly has warmed sufficiently, place on top of inverted tank.
5. Start at a caster position and slowly press onto the lip of the bottom of the tank. (Press on from right to left).

NOTE: The last clip to be pressed may snap off. If this occurs, don't be alarmed. This will not affect the durability nor operation of the dolly.

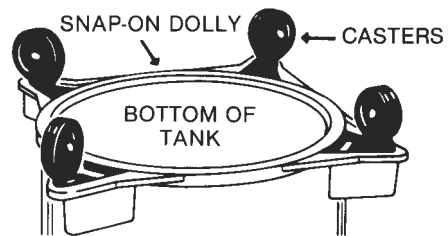


Figure 1 — Assembly and Replacement Parts  
Illustration for Dolly

### Operation

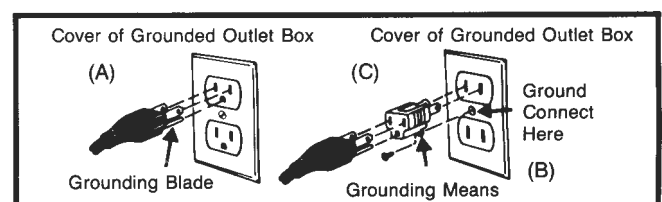
#### GROUNDING INSTRUCTIONS

1. This cleaner must be grounded: If it should malfunction or break down, grounding provides a path of least resistance for electric current, to reduce the risk of electric shock. This cleaner is equipped with a cord having an equipment grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

### ▲ DANGER

**IMPROPER CONNECTION OF THE EQUIPMENT GROUNDING CONDUCTOR CAN RESULT IN A RISK OF ELECTRIC SHOCK.**

2. Check with a qualified electrician or serviceman if you are in doubt as to whether the receptacle is properly grounded. Do not modify the plug provided with the cleaner if it will not fit the outlet; have a proper outlet installed by a qualified electrician.
3. This cleaner is for use on a nominal 120 volt circuit, and has a grounding plug as shown in Figure A. A temporary adapter, as shown in Figures B and C, may be used to connect this plug to a 2-pole receptacle as shown in Figure B, if a properly grounded outlet is not available.
4. The temporary adapter should be used only until a properly grounded outlet (Figure A) can be installed by a qualified electrician. The green colored rigid ear or lug extending from the adapter must be connected to a permanent ground, such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by a metal screw.



GROUNDING METHODS

**Operation (Continued)****EXTENSION CORDS**

1. When using the cleaner at a distance where an extension cord becomes necessary, a 3-conductor grounding cord of adequate size must be used for safety, and to prevent loss of power and overheating. Use the table below to determine A.W.G. wire size required.

EXTENSION CORD LENGTH IN FEET	25	50	75	100
A.W.G. WIRE SIZE REQUIRED	18	16	14	12

2. Before using cleaner, inspect power cord for loose or exposed wires, and damaged insulation. Make any needed repairs or replacements before using your cleaner. Use only three-wire extension cords which have three-prong ground-type plugs, and three-pole receptacles which accept the cleaner's plug.
3. If using an extension cord when vacuuming liquid, be sure the connection does not come in contact with the liquid.

NOTE: Static shocks are possible in dry areas, or when the relative humidity of the air is low. These shocks are only temporary and do not affect the use of the vacuum cleaner. To reduce the frequency of static shocks, the best remedy is to add moisture to the air with a console, or installed humidifier.

**▲ CAUTION**

**Before plugging vacuum into outlet, make sure outlet voltage is same as vacuum voltage rating (given on vacuum nameplate).**

1. Insert hose into tank inlet and twist slightly to seat. **IMPORTANT: TO USE THE VACUUM AS A BLOWER, SIMPLY INSERT THE FLEXIBLE HOSE INTO THE EXHAUST OPENING.**

2. Attach accessories to hose as required.
3. Prepare unit for DRY PICKUP or WET PICKUP as follows:

**▲ WARNING ▲**

**DO NOT PICK UP OR USE IN THE PRESENCE OF ANY COMBUSTIBLE MATERIALS, SUCH AS SOLVENTS, GASOLINE, EXPLOSIVE DUSTS, COPY MACHINE CHEMICALS, ETC., AND NEVER ATTEMPT TO PICK UP HOT METAL CHIPS, HOT ASHES OR COALS.**

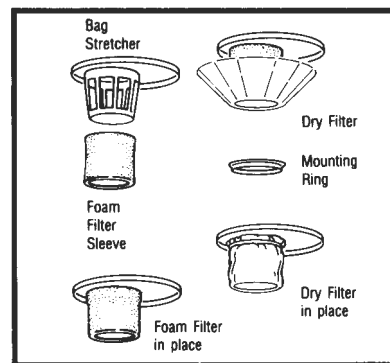
**DRY PICKUP****▲ WARNING ▲**

**ALWAYS DISCONNECT THE PLUG FROM THE WALL OUTLET BEFORE REMOVING THE TANK COVER.**

To pick up dust and dry material, you must add the dry disc filter to ensure proper filtration. If the cleaner has been used to pick up liquids, foam filter sleeve must be cleaned, dried, and installed back on bag stretcher (see illustration). With tank cover in an upside down position, center dry disc filter over the filter cage.

Place mounting ring over the dry filter and push down until the ring is positioned against ribs of the tank cover.

NOTE: Ensure that the mounting ring is completely secure and in position by pressing down firmly around the ring in several



places. Be sure the dry disc filter completely covers the foam filter sleeve. Also check to ensure that all edges of the dry filter are secure under the mounting ring. **The dry disc filter should always be in position over the foam filter for dry pickup.**

**▲ CAUTION****Keep Filters Clean.**

Efficiency of the vacuum is largely dependent on the filters. To clean the dry disc filter, remove from filter cage and shake off loose dirt and dust. A water rinse can also be used depending on the condition of the filter. Allow filter to dry before installing back on filter cage. **DO NOT MACHINE WASH OR DRY.**

When using the vacuum to pick up very fine dust such as sawdust or drywall-type material, it will be necessary to empty the tank and clean the filters at more frequent intervals to maintain maximum pickup power.

A dry filter is necessary to pick up dry material. If you use your vacuum to pick up dust when the filter is wet, the filter will clog quickly and be very difficult to clean.

**WET PICKUP****▲ WARNING ▲**

**ALWAYS DISCONNECT THE PLUG FROM THE WALL OUTLET BEFORE REMOVING THE TANK COVER.**

**Remove** the dry disc filter. The foam filter **must remain in position** over the bag stretcher (see illustration) to prevent suds or miscellaneous debris from entering the motor. For convenience, the mounting ring may be returned to position over the top of the foam filter next to the cover. Do not use the dry disc filter for wet pickup. When picking up several tanks full of liquid, the foam filter will become saturated and misting may appear in the exhaust air. At this time, you should dry the foam filter or change to a dry foam filter to eliminate the misting and possible dripping of liquid around the lid. The filter should always be dried after using the vacuum to pick up liquids.

NOTE: Wet pickup accessories should be washed periodically. This can be accomplished with a warm solution of soap and water. After completing a wet pickup, raise the hose above the cleaner to permit any liquid in the hose to drain into the drum before shutting OFF. The interior of the drum should be periodically cleaned.

**Operation (Continued)**

NOTE: Make certain lid latches are locked securely, and ensure that all fittings are tightly in place.  
 4. Plug vacuum cleaner into appropriate outlet.  
 5. Turn ON the vacuum by flipping the switch to "ON", and begin work operations.

**EMPTYING LIQUID WASTES FROM THE TANK**

The Dayton Tradesman Wet/Dry may be emptied of liquid waste by removing the tank cover. To empty, stop the motor and remove the plug from the electrical outlet. Remove the tank cover and deposit the liquid waste contents into a suitable drain. After the tank is empty, return the cover to its original position. To continue use, plug the cord into the electrical outlet, and start the motor. **IMPORTANT: TO AVOID PERSONAL INJURY, USE SPECIAL CARE WHEN EMPTYING HEAVILY LOADED TANKS.**

**AUTOMATIC SHUTOFF**

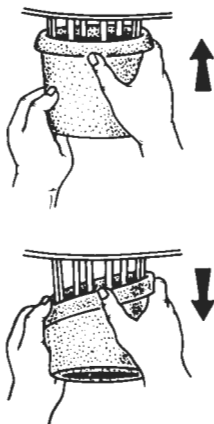
This cleaner is equipped with an automatic shutoff that operates when picking up liquids. As the level of the liquid rises, an internal float rises until it seats itself against a seal at the intake of the motor, shutting OFF suction. When this happens, the motor will develop a higher than normal pitch noise. To continue use, empty the liquid waste from the tank as outlined in the previous paragraph.

NOTE: If accidentally tipped over, the vacuum could lose its suction. If this occurs, place vacuum in upright position and turn switch OFF. This will allow the float to return to its normal position and you will be able to continue operation.

**Maintenance****KEEP FILTERS CLEAN**

The Dayton Tradesman vacuum cleaner is equipped with a special foam filter sleeve which, if given proper care, can be used indefinitely. The filter should be cleaned periodically as prescribed in the following steps:

1. Always disconnect the plug from the electrical outlet before removing the tank cover. Place tank cover in an upside-down position. Remove filter by sliding it up and off the internal plastic cage.
2. Shake excess dust off filter with a rapid up and down movement.
3. Hold filter under running water for a minute or two, again rinsing from the inside. A water wash is not always required, depending on the condition of the filter.
4. Gently wring out loose water, blot filter with a clean towel, and allow to dry. This filter is now ready to install.
5. Install the filter by placing the tank cover in an upside-down position on any convenient surface. Stretch the filter sleeve over the plastic cage and slide into place.



6. See Dry Pickup Operation for care of paper filter.

**LUBRICATION**

No lubrication is necessary as the motor is equipped with lifetime lubricated bearings.

**SERVICE**

Do not attempt to service your Dayton Vacuum beyond that described in the Operating Instructions and Parts Manual. This model has no user serviceable parts.

**Troubleshooting Chart**

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Vacuum will not start	1. Defective switch 2. Defective motor	1. Replace 2. Replace
Dust blowing out exhaust	Filters not functional	Clean or replace filters
Loss of vacuum	1. Loose hose connection 2. Filter clogged 3. Full tank 4. Hole in hose	1. Tighten hose connection. 2. Clean or replace filter 3. Empty machine 4. Replace hose

**STORAGE**

Before storing the vacuum, always empty and clean the tank. Never allow liquids to set in the tank for any extended period of time. Wrap the power cord around the housing of the vacuum. Store accessories in the same area as the cleaner so they are ready for the next use. Store cleaner indoors.

**ORDER REPLACEMENT PARTS  
BY CALLING TOLL FREE  
1-800-323-0620**

Please provide following information:

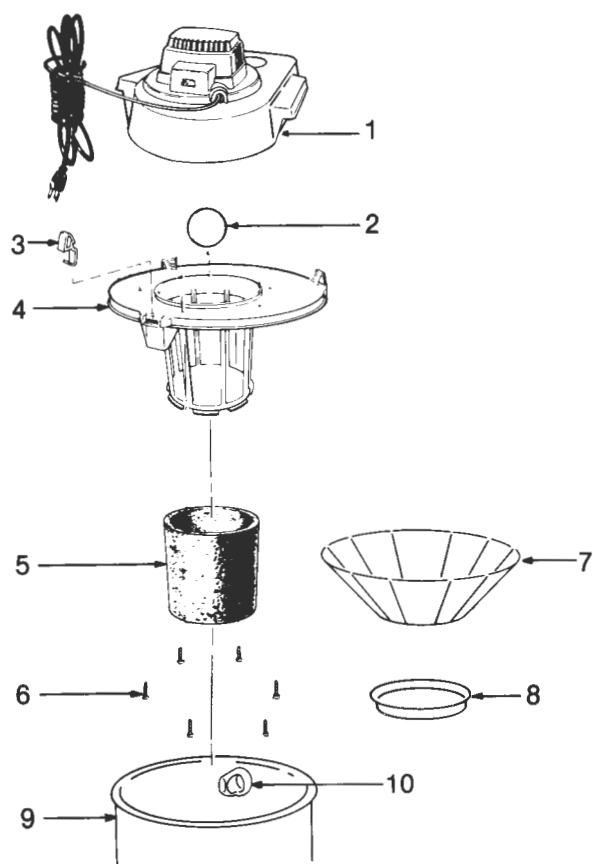
- Model Number
- Serial Number (if any)
- Part Description and Number as shown in Parts List.

Address parts correspondence to:  
 Parts Company of America  
 1657 Shermer Road  
 Northbrook, IL 60062-5362

**⚠ DANGER**

**THIS EQUIPMENT INCORPORATES PARTS SUCH AS SWITCHES, MOTORS, OR THE LIKE, THAT TEND TO PRODUCE ARCS OR SPARKS, THAT CAN CAUSE AN EXPLOSION. WHEN LOCATED IN GASOLINE-DISPENSING OR SERVICE STATIONS, INSTALL AND USE AT LEAST 20 FEET HORIZONTALLY FROM THE EXTERIOR ENCLOSURE OF ANY DISPENSING PUMP AND AT LEAST 18 INCHES ABOVE A DRIVEWAY OR GROUND LEVEL.**

## Vacuum Replacement Parts List



REF. NO.	DESCRIPTION	PART NO.	QTY.
1	Power unit assembly	85539-97-1	1
2	Float	00811-00-0	1
3	Latch	85500-00-7	3
4	Lid & cage { 2Z972F 2Z982F (includes Ref. No. 3)	89656-10-2 89886-10-5	1 1
5	Foam filter sleeve	5X879	1
6	Hex hd. screw, #10 x 3/4" lg.	*	7
7	Dry disc filter (pkg. of 3)	6H008	1
8	Mounting ring	30065-00-7	1
9	Tank { 2Z972F 2Z982F	50639-97-0 51038-97-4	1 1
10	Inlet fitting	85505-00-6	1
△	Lock-ring for fitting	85506-00-4	1
△	Hose, 1 1/4" x 6 ft	53376-03-4	1
△	10" combo nozzle	78725-00-9	1
△	10" squeegee insert	79327-00-3	1
△	Extension wand	37720-00-0	2
△	Dolly frame only for 2Z972F	93815-00-9	1
△	Dolly frame only for 2Z982F	93915-00-7	1
△	Casters (pkg. of 4)	42042-96-0	1

(\*) Standard hardware item; available locally.

(△) Not shown.

Figure 2 — Replacement Parts Illustration

NOTE: Grainger Model 2A686 Full Cloth Filter and Frame for Model 2Z982 Optional.

## Limited Warranty

**DAYTON ONE-YEAR LIMITED WARRANTY.** The Dayton Tradesman vacuums, Models 2Z972F & 2Z982F, are warranted by Dayton Electric Mfg. Co. (Dayton) to the original user against defects in workmanship or materials under normal use for one year after date of purchase. Any part which is determined by Dayton to be defective in material or workmanship and returned to an authorized service location, as Dayton designates, shipping costs prepaid, will be, as the exclusive remedy, repaired or replaced at Dayton's option. For limited warranty claim procedures, see PROMPT DISPOSITION below. This limited warranty gives purchasers specified legal rights which vary from state to state.

**LIMITATION OF LIABILITY.** To the extent allowable under applicable law, Dayton's liability for consequential and incidental damages is expressly disclaimed. Dayton's liability in all events is limited to, and shall not exceed, the purchase price paid.

**WARRANTY DISCLAIMER.** Dayton has made a diligent effort to illustrate and describe the product in this literature accurately; however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the product is merchantable, or fits a particular purpose, or that the product will necessarily conform to the illustrations or descriptions.

Except as provided below, no warranty or affirmation of fact, expressed or implied, other than as stated in "LIMITED WARRANTY" above is made or authorized by Dayton.

**PRODUCT SUITABILITY.** Many states and localities have codes and regulations governing sales, construction, installation, and/or use of products for certain purposes, which may vary from those in neighboring areas. While Dayton attempts to assure that its products comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the product is installed or used. Before purchase and use of a product, please review the product application, and national and local codes and regulations, and be sure that the product, installation, and use will comply with them.

Certain aspects of disclaimers are not applicable to consumer products; e.g., (a) some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you; (b) also, some states do not allow limitations on how long an implied warranty lasts, consequently the above limitation may not apply to you; and (c) by law, during the period of this Limited Warranty, any implied warranties of merchantability or fitness for a particular purpose applicable to consumer products purchased by consumers, may not be excluded or otherwise disclaimed.

**PROMPT DISPOSITION.** Dayton will make a good faith effort for prompt correction or other adjustment with respect to any product which proves to be defective within limited warranty. For any product believed to be defective within limited warranty, first write or call dealer from whom product was purchased. Dealer will give additional directions. If unable to resolve satisfactorily, write to Dayton at address below, giving dealer's name, address, date and number of dealer's invoice, and describing the nature of the defect. Title and risk of loss pass to buyer on delivery to common carrier. If product was damaged in transit to you, file claim with carrier.

**Manufactured For Dayton Electric Mfg. Co., 5959 W. Howard St., Chicago, IL 60648**

**Notes**